

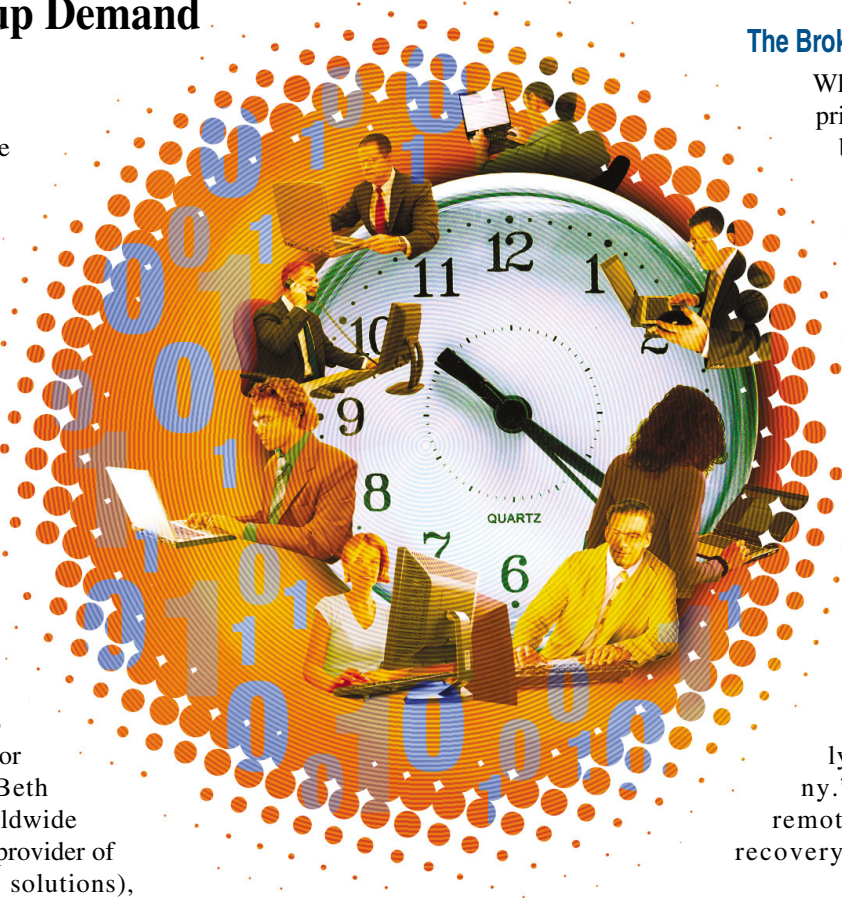
No Backup Window Here

A Lesson On How SMEs Handle The Backup Demand

by Chris A. MacKinnon

REMEMBER WHEN backups were done every so often? It seems like yesterday. (Those were the good old days.) Due to exploding data capacity requirements, today's global enterprises do not have room for a backup window, much less a shrinking backup window. And what's more, Gartner analysts have predicted that by 2012, there will be 30 times more data than there was earlier this decade.

With the Internet and nonstop access to enterprise data, no time is a good time to have anything running slower or with limited functionality. Beth White, vice president of worldwide marketing for Data Domain (a provider of Capacity Optimized Storage solutions),



says the fact that there is no backup window is not an overstatement.

The Broken

White says multinational enterprises are in a constant state of backing up data. She says, "They mitigate the situation through a variety of backup strategies and processes. Daily incremental backups and weekly full backup practices are common in a single location, but hourly backups of constantly changing mission-critical data, such as transactional database data, are very common as well. Different data types are chosen to be backed up at different points in time. Plans can be complex and can vary greatly from company to company." She says processes for remote replication for disaster recovery of data and applications

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Voice Is So Old School

Today's Cell Phones Make Powerful Data Tools, Too

by David Garrett

THEY USED TO be toys. Now they're fabulous tools. Today's cell phones, smartphones, and voice-ready PDAs merge the power of enterprise apps with real mobile broadband, making them palm candy for any end user. They can plug into Exchange, Notes, and VPNs at breakneck speed, not to mention most CRM and back office apps. And they still offer all the Word, Excel, PowerPoint, PIMs (personal information managers), MP3 players, voice notes, ebooks, and podcasts they always have.

So it's no wonder that users are begging for minimarvels like never before. But with so many features, how do you choose the right device? What's best?

Getting Connected

Recent cell phones and converged PDAs have the same

connection options as in the past, including Wi-Fi and GPRS (General Packet Radio Service). But Wi-Fi only works if you're close to a hotspot, and GPRS is slow.

More promising are the new forms of mobile broadband, such as EDGE networks from T-Mobile and Cingular. EDGE (Enhanced Data GSM Environment) offers downloads up to 384Kbps, which is fast

enough for heavy email or basic Web surfing. (T-Mobile's EDGE plans also come with a perk: free Wi-Fi access at T-Mobile hotspots, including Starbucks, Borders, FedEx Kinko's, and T-Mobile stores.)

But if you want the Cadillac of mobile broadband, Sprint and Verizon offer EVDO, short for Evolution Data Optimized. It hits speeds up to 2Mbps, but it's also expensive: Most EVDO plans cost double the price of EDGE. Cingular offers an HSDPA (High Speed Downlink Packet Access) service under the name of Broadband-Connect; it rivals EVDO for speed and price.

No matter which option you choose—Wi-Fi, GPRS, EDGE, EVDO, or HSDPA—you can

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One Device, Please

IT departments often give handhelds scant attention, leaving end users to choose their own tools. The result? Too many platforms, too many models, and too many problems to manage. If your workforce needs a mobile solution, be sure to standardize on one platform, choosing as few models as possible. It cuts the learning curve and cuts down on support calls because users can share their war stories with one another. You might even get a better price if you buy in bulk.

In This ISSUE

COVER FOCUS

Backup & Restore

In today's enterprise, there's no such thing as a shrinking backup window. With nonstop access to enterprise data, there's often little to no backup window. How are small to midsized enterprises dealing with this? What new strategies and tools are available to help?

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■ **Accusys** released the ACS-77100 (SATA-SATA) and ACS-77101 (USB/Firewire-SATA) RAID controllers. ■ **CRYPTOCARD** launched the latest version of its CRYPTO-Server for desktop, network, LAN, and Web server authentication. ■ **Exabyte** is targeting SMEs and remote office users with its Magnum 448 LTO Tape Library. ■ **Iomega** announced the availability of two high-capacity portable hard drives with host-powered operation and Drop Shock Technology. ■ **Pelican** announced the new 1080 HardBack Case designed to protect 13-inch laptops while traveling.

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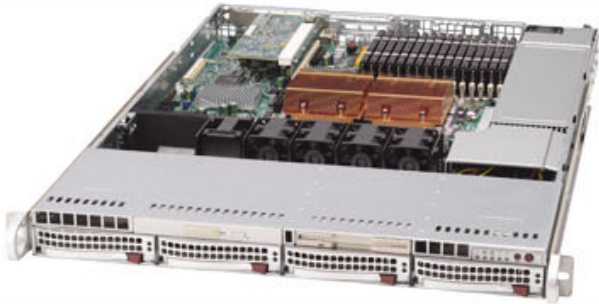
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Handling The Remote

With Planning, Backing Up Data From Multiple Offices Is More Than Manageable

by Elizabeth Millard

AS MANY ENTERPRISES have found, “the office” just isn’t the office anymore, thanks to telecommuting, branch offices, and offsite data centers. Employees can be spread over several states, or even different countries, boosting productivity and company visibility but also presenting challenges for IT.

A significant issue has become how to back up all that data being created at separate locations and do it in a way that’s cost-effective, automated, and dependable. Also, once the data is backed up, it has to be stored, and many small to midsized enterprises have discovered that keeping the backup media at a central site simply doesn’t work, leading to creative strategies that sometimes don’t succeed as well as a company might like. But, experts note, there are ways to tackle the problem.

Strike Up The Bandwidth

One major sticking point in creating a streamlined remote backup policy is bandwidth and its related costs. One option is to pay for a DS3 connection to each location, but that choice involves significant cost. Another path is using DSL, but many companies have found that it’s difficult to handle a steady backup stream reliably with such a connection.

In order to lessen the headaches, Pillar Data Systems recommends that IT managers look more closely at the features in



their products, rather than just how fast data can get through the pipe. What’s important is that a backup system make efficient use of network bandwidth with features such as byte-level differential data transfer, bandwidth scheduling and throttling, multistreaming, and compression.

“The amount of network overhead, or information that is in addition to the data being transferred, that a product sends over the network is an important consideration,” the company notes in a recent report. “Obviously, less is better than more.”

Another significant consideration when creating a remote backup system is who will be handling the work. Some SMEs delegate responsibility to one person at each branch office, but experts point out that this strategy is frequently ineffective and risky.

A better tactic is to allow central IT staff to control all remote data management and backup, which might require changing the properties and characteristics of remote data, so it can be consolidated and sent to a central site for archiving.

Auto Pilot

Unfortunately, when it comes to remote backup, there’s no one-size-fits-all solution that will do the job for any company. Instead, data backup is often handled with a number of different techniques, sometimes blending tape, managed services, and appliances.

Many companies are finding that outsourcing the backup to a service has worked well, especially with the automated controls that many have.

Chuck Ladd, who handles IT at architecture and engineering firm Strahan Associates, is somewhat typical in terms of SME backup procedures, he believes. He used to store data on tape and then bring it to a safe-deposit box, but as the company grew, the procedure became a grind, and he eventually turned to Arsenal Digital Solutions (www.arsenaldigital.com), which has an offsite, automated backup service. “When I did the cost benefit analysis based on how much labor I was putting into it, an automated service already paid for itself as soon as I signed up,” says Ladd.

Many SMEs are going a similar route, notes Arsenal CEO Frank Brick. “Typically, smaller customers can get numerous services at an affordable rate,” he says. “And, they can still have management of multiple locations.”

Another option is to employ a disk-based backup product that excels at data compression. One example is ExaGrid (www.exagrid.com), a vendor that works with a company’s existing applications to combine

Microsoft’s Branch Office Bundle

Those puzzling over how to bring together disparate elements and data from branch offices may find some relief as Microsoft rolls out its branch office software bundle, announced by the company in July. The package includes Windows Server R2, Internet Security and Acceleration Server SP2, Virtual Server R2, and System Center management. The benefit in terms of remote backup is that there’s no limit on the number of users who can connect to the servers, making automated storage easier. In the company’s Small Business Server, by contrast, only about 75 users can connect.

The bundle does have some drawbacks, though. For one thing, customers can’t use the bundle if they already have several enterprise licensing agreements in place. More notably, the package is being targeted at the midmarket and larger enterprise, leaving many smaller companies out of the loop. It remains to be seen what the bundle’s reach and effectiveness might be, but some mid-sized enterprises may want to chat with their Microsoft reps to see if it’s right for them.

SATA drives with compression and byte-level delta data reduction.

This type of strategy could be especially compelling for data centers that like to have more control over their processes and are uncomfortable with sending data to a vendor’s centers.

Whichever type of tactic is chosen, it’s crucial for a company to have a growth plan in place, anticipating more branch offices in the future, notes Fred Pinkett, vice president of product management at ExaGrid.

“Data is just going to grow with the increasing sophistication of technology and more databases, leading to the need for more bandwidth efficiency and data replication,” he says. “Nobody’s put together one good solution for this, so IT managers will have to be creative in how they put components together, but they should definitely have a long-term plan in place when doing that.”

Key Considerations

According to Pillar Data Systems, here are some of the top considerations for managing remote data:

- Central policy-based control
- WAN bandwidth utilization
- Security and data integrity
- Remote process automation and application interfacing
- Heterogeneous system support
- Point-in-time vs. continuous replication
- File ownership preservation
- Automation

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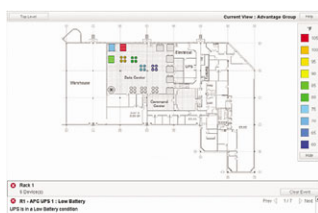


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No Backup Window Here

Continued from Page 1

are also weaved into these back-up scenarios.

According to White, some companies can't achieve a local backup because the daily backup window has ballooned beyond 24 hours (even with compression). Why? White says backup data is often 10 times the size of regular data due to redundancy. "The same data is

altered and then stored again. It takes up an incredible amount of disk space, which costs a lot of money. That's why many companies are turning to disk-based backup solutions that incorporate data deduplication technologies."

Often referred to as "dedupe," these technologies peruse backup data streams looking for redundancies and only store new pieces of

Processor.com

data. White says it sounds like a simple concept, but it's difficult technology to create. She notes, "Data Domain is one company that produces high-speed data deduplication technology and packages into disk-based backup appliance solutions. These solutions have helped many companies overcome the problem of intolerable backup windows and unreliable restores."

Fixing The Broken

So how are SMEs dealing with this? They're forced to invest both strategically and reactively, White says: "Business growth, or growth of data processing needs, does not automatically translate into staff growth or increased IT budgets. IT innovation can help bridge the gap, but sometimes the success of the small to midsize enterprise environment is, sad to say, as much about how effective an IT manager is at raising funds for improvement or communicating the value of new IT investments as it is about the technical savvy of the IT staff."

White says pain points are often left to bubble up to the top where

they become intolerable before an IT manager is granted funds to proactively address needs. She says as a backup solution company, Data Domain sees this all the time. "A greater percentage of large enterprises have had the luxury of adequate IT resources to date, but small to midsize companies have not, and it's tougher for them to make the transition to, for example, adequate data protection strategies—both in terms of financial investment and mind set," she says.

Lakeview Technology (www.lakeviewtech.com)—a maker of high availability, data protection, and data management software—is also helping enterprises deal with the shrinking backup window issue. Its MIMIX software includes storage management solutions providing automatic real-time replication of Linux files (Echostream FS for Linux) and a recovery point capturing component for OS/400 and i5/OS called MIMIX dr1 (able to capture multiple points to disk during a single day).

NeoPath Networks (www.neopathnetworks.com) is another

September 1, 2006

company helping enterprises deal with backup problems. The company has developed the NeoPath File Director—an NFM (network file management) appliance that achieves a tiered storage strategy, minimizing the amount of data that requires frequent backup. Using the File Director, administrators can define policies that migrate data to high-performance file servers that are backed up nightly.

According to White, the term "backup" will be synonymous with "replication" in the future. She says, "They are gradually merging, and over time, backup will begin to be understood as replication. It just isn't there today because proprietary replication is very expensive, and data volume makes moving large data sets across a wire cost prohibitive." Eventually deduplication will make it possible for offsite replication to be common as a practice for backup, recovery, and disaster recovery, she says. "Many people are still struggling with their backup issues and using strategies for disaster recovery that are less than effective, practically speaking." ■

Dealing With Today's Biggest Backup Problems

- Pay careful attention to the trends of your backup data and how much time you are spending administering backups.
- Take proactive (vs. reactive) action to address growth trends early on. This will allow you to more carefully evaluate the viability of new backup solutions and/or take interim steps to adapt your backup processes until funding for long-term solutions is established.
- Consider arresting backup data volume growth with deduplication technologies.
- Pilot test any new solutions to ensure they meet vendor claims and work in your environment and ask solution vendors and resellers for references.

Voice Is So Old School

Continued from Page 1

surf the Web on your phone or PDA or use the device as a notebook modem by connecting through USB or Bluetooth. Most providers also sell PCI cards that let you connect your notebook directly to their high-speed networks, without a phone.

Not Just POP

Now that you've got broadband everywhere, what can you do with it? In fact, just about anything. The days when cell phones offered nothing but POP email are over. True, Research In Motion has long offered secure email and enterprise functions through its BlackBerry Enterprise Server, but today's cell phones and voice-ready PDAs extend the same features to Palm and Windows platforms.

Take Verizon's Wireless Sync Enterprise Server, which connects a handheld to an Exchange or Notes server behind a firewall. Verizon also offers three enterprise apps for BlackBerrys, smartphones, and voice-ready PDAs: Field Force Manager, which tracks remote employees and customer service requests; Fleet Administrator, which tracks cars and trucks; and Sales Force Automation, for CRM.

T-Mobile offers Corporate My E-mail, which gives access to Exchange and Notes using Outlook Web Access or iNotes, respectively. And Cingular offers Good Mobile Messaging Solutions from Good Technologies. It gives you near-complete access to corporate email and database systems, with such IT-friendly features as global address search, over-the-air setup for new clients, remote password management with policies, and even remote data kill. And Good's Mobile Intranet lets you push data from enterprise software to a range of mobile tools on different platforms.

You can also use third-party VPNs no matter which service provider you choose. Some of the best known include Mergic's VPN for Palm, NetMotion's

Wireless Mobility XE for Windows platforms, or managed solutions such as Positive Networks.

But Is It Secure?

Of course, if you're using a cell phone or PDA for more than Web surfing, you'll need to worry about data safety. And worry you will. These little tools store private data on customers, patients, inventories, or even balance sheets, all of which could be subject to HIPAA, Sarbox, and half a dozen other laws. And because they fit in your pocket, they double the potential for loss or theft.

However, there are safeguards, such as strong power-on passwords. Many networks also offer over-the-air data kills and data-transit encryption, such as AES (Advanced Encryption Standard). You can also install third-party software, such as Trust Digital's Mobile Edge, used by the IRS and the U.S. Army, or Pointsec for Mobile Platforms.

And Last . . .

With so much access to data, you'll need a good way to enter, edit, and delete it, making a cell phone's or PDA's keyboard (or lack thereof) simply crucial.

BlackBerrys are hailed for their excellent keyboards, but they're far from alone. HP's iPAQ and Palm's Treo both have on-device keyboards; models from Sprint, T-Mobile, and others even have slide-out keyboards in landscape format. And don't forget about on-screen text entry, which includes small and full-screen tap keyboards, different graffiti systems, and full-fledged handwriting recognition.

Which is right for your enterprise? In the end, it's a matter for you and your users to decide. But one thing's for sure: You have more choice—and more power—than ever. ■

Four Times The Fun

- Four platforms rule the mobile roost. They are:
- BlackBerrys**
Made by RIM, BlackBerrys began as cell phones with advanced email; they've evolved into full-featured PDAs.
 - Palm**
Palm was the first (and some argue the best) major platform for handhelds. Palm is also the maker of Treo, widely praised for its design.
 - Pocket PCs**
Pocket PCs also run a mini version of Windows but, unlike smartphones, focus on data, not voice. They have a wider range of features than smartphones, but they're also larger.
 - Smartphones**
Smartphones are cell phones that run a pared-down version of Windows. They focus on voice, not data, but offer most of the features of Pocket PCs.

POWER PROTECTION

JUNE 9, 2006

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modular redundant architecture that can easily scale power and runtime as demand increases or when users require higher levels of availability. Using only 3U (5.25 inches high) for the combination of power and battery submodules, users can configure the new units as freestanding tower or rackmounted systems.

With built-in network manageability, the Pulsar MX systems are ideal for protecting high-performance workstations and servers in operation-critical server and network rooms. The 5kVA compact unit features front access hot-swappable battery and power submodules, auto battery-test, multilingual LCD, and intuitive power management software. For extended backup time, users can add external battery modules to achieve up to two hours of runtime. To help preserve battery life, the Pulsar

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Bolster Your Backups

How Encryption Technologies Can Keep Your Data Secure

by Christian Perry

ANY DATA CENTER managers worth their salt understand that regular backups are key to business continuity. But as security assumes an increasingly vital role on the IT stage, determining how to secure those backups has grown nearly as important as actually making them.

After all, backups can easily prove counterintuitive if hackers, disgruntled employees, or even rivals can easily access the stored data. Further, backups secured with sloppy protection methods can be similarly dangerous, particularly if a company needs to access the data but can't bypass its own protection scheme.

"The good news for all SMBs is that sophisticated technologies that were only attainable by big business are now becoming affordable for small business," says Ann Westerheim, president of Ekaru, a strategic technology services company for SMEs.

Regardless of a company's budget, security products and technologies are available that can almost always conform to a specific backup infrastructure. Whether protecting

tapes or disks, these technologies employ encryption to keep prying eyes from accessing the data on those mediums. Encryption works by encoding the backup data using a complex algorithm that can be decoded using only a specific data key retained by the backup creator.

Because encryption can be resource-intensive, specialized

cheaper solution of backup storage software that they can install on the backup server, where it will then encrypt data between the network and the backup target.

Choose Standards Wisely

Most experts would agree that encrypting backups is a wise move, but simply encrypting with any old encryption standard—the algorithm used to encode data—doesn't necessarily mean you're protected. For example, companies using DES would likely want to think twice about their encryption strategies.

"DES is the first standard cipher the business world had. It is 20 years old and still widely used," says Gordon Bridge, president and CEO of CM IT Solutions, which provides IT professional services for SMEs. "However, it is aging and getting less secure. A knowledgeable attacker who can afford plenty of expensive computer equipment can now break DES easily. National security organizations can break this encryption with no difficulty whatsoever. DES uses a 56-bit encryption key—CM IT Solutions recommends a 128-bit key."



Practice Makes Perfect

Encrypting your backups is smart, but you won't look smart when you need to access those backups and can't figure out how to decrypt them. Experts recommend a regular schedule of testing and retrieval to ensure you can access data the moment you actually need it.

According to Ann Westerheim, president of Ekaru, companies need to thoroughly understand the restoration process, whether using simple or sophisticated checks. "Perhaps just a simple test to delete dummy files and restore from backup will be enough to boost confidence in the procedure," she says. "SMBs need to understand how file versions are handled, how long versions are kept, and how easy or difficult it is to identify the proper media location for the file."

Matt Curtin, founder of Interhack and author of "Brute Force: Cracking the Data Encryption Standard," describes an alternate option: companies that provide services for disaster recovery or business continuity drills, with both cold and warm sites available.

"Here in Ohio we've got an excellent nonprofit facility called Platform Lab where we can rent lab space and equipment on very good terms, bringing our backups to the facility, loading them up, and seeing how well we can operate in the new facility, on the new equipment," Curtin says.

Dore Rosenblum, vice president of marketing for NeoScale Systems, says that the process of backing up and restoring data should be repeated as part of any disaster recovery exercise and part of standard operational practice to ensure information can be recovered when required.

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Product



Releases

PHYSICAL

Cabling

■ **Moxa** launched two entry-level media converters, the TCC-80I and the TCF-90. The TCC-80I is a serial port-powered RS-232-to-RS-422/485 converter that offers data transmit speeds up to 115.2Kbps and can withstand 4KV rms input to output for a single minute. The TCF-90 is a serial port-powered RS-232-to-fiber media converter and is available in both single and multimode models. Both the TCC-80I and the TCF-90 have LED port power indicators. Moxa is targeting the converters at elevators, parking lots, lighting control, and other applications.

COMMUNICATIONS

Content
Networking

■ The BN5000 is a new SSL load balancing appliance from **Britestream**. It also can act as an SSL offload device for companies with existing load balancers. The 1U, rack-mountable BN5000's target market is online banking, trading, and shopping

applications. It comes in three models starting at \$10,000.

Security

■ A new upgrade to **Applied Innovation's** ARemote device supports secure management of remote sites over CDMA (Code Division Multiple Access) and GSM/GPRS broadband cellular connections. Called AIdirector, the new remote site management console offers encryption keys and digital certificates for VPN access, pass-through console support, maintenance checks, troubleshooting, out-of-spec alerts, and router/switch/transceiver management. It can even tilt RET antennas, start or stop a generator, and handle failover in case of a problem.

■ **Cyber-Ark Software** announced its new Enterprise Password Vault appliance, designed to let IT administrators more easily manage and secure privileged user passwords. The new offering helps prevent intentional or unintentional misuse, security breach, and data theft in a variety of ways, including through multilayered security, password policy enforcement, audit reports, access-control mechanisms, and a process

for managing changes being made to access rights. The Enterprise Password Vault lets users manage generic accounts such as Administrator on Wintel platforms, Root on Unix systems, Cisco Enable, DBA passwords, and other application code and script passwords.

■ **Lancope** unveiled its StealthWatch Identity-1000 appliance and an updated version of its StealthWatch System network behavior analysis and response software. The offerings deliver one-click user tracking, automatic identification of users and sessions, router and switch monitoring and reporting, user identity tracking, and support for NetFlow- and sFlow-enabled network infrastructures. The StealthWatch appliance and software also comes with Lancope's intuitive Point-Of-View user interface for customizing views and reports. Currently, you can purchase StealthWatch Identity-1000 appliance (valid with up to 200 authentication servers) for an introductory price of \$19,795.

■ **Network Box Security Response** released antispam modules for Network

Boxes. The modules expand the Network Box heuristic and signature capabilities so it can better prevent MDR (multidense resistant) image spam. According to Network Box Security Response, the modules are 98.7% effective against recent MDR image spam. This means Network Box customers won't suffer from large numbers of false positives. The module is available immediately, and Network Box Security Response has already sent the module to customers.

Serial Networking

■ **Moxa** released the NPort 6000 serial servers, which protect serial-to-Ethernet connections. Earlier NPort servers handled general-purpose applications or rugged conditions. Moxa touts the 6000 series as servers that deliver secure data transmission. The servers support DES/3DES/AES encryption, as well as SSHv2 and SSL. The series includes a 64KB port buffer that temporarily stores data during disconnections, and users can add an SD card to increase the buffer. The 4-, 8-, and 16-port models also include an LCD console that lets users directly configure the servers.

Go to Page 17

Integration For Unified Messaging

TRENDnet/Skylook Skype Hardware & Software Partnership

by Kurt Marko

WHILE INTERNET telephony takes many forms, one of the most popular and least expensive is the P2P-based service Skype. Skype offers free PC-to-PC and domestic landline calls and very low-cost international rates; however, relying on a P2P architecture has meant being tethered to a computer while making calls, and most people are accustomed to placing calls using a handheld, typically cordless, device.

Manufacturers have responded with products that provide cordless phone convenience while using Skype as the calling infrastructure. TRENDnet is a recent entrant to the market with a number of Skype-compliant handheld and speakerphones.

TRENDnet's phones support many Skype features, including Contacts, Call

List, SkypeOut, and Conference Call, using a menu interface with a small display. Its first product is a cordless handset using Bluetooth to wirelessly connect the base station to a PC; however, it has also announced both Bluetooth- and USB-connected handsets and speakerphones.

While TRENDnet is simplifying Skype calling via slick hardware, its alliance with Skylook provides software integrating Skype with Microsoft Outlook, supplementing Skype's native client by adding a number of powerful features. Skylook includes features such as an answering machine for Skype calls that puts recorded messages in the Outlook inbox, the ability to record any Skype call to MP3, the ability to make Skype calls to Outlook contacts, integration with Skype's voicemail with received messages placed in the Outlook inbox, and the ability to save text

messages as email conversations. Combining TRENDnet's phones with the Skylook plug-in provides users a full-featured phone system: a convenient traditional phone for taking quick calls and a powerful PC application extending the tools used for managing email messages to voice conversations.

TRENDnet isn't the first to jump on the Skype phone bandwagon. Skype's shopping site offers a number of USB phones, including a dual-purpose set capable of making either Skype or landline calls. The next step in Skype hardware evolution is Wi-Fi phones—announced, but not yet available, from Belkin and Netgear—that operate independent of a PC (handy for those who don't keep their machines constantly running).

Similarly, Skylook's product faces competition from Skype's own Toolbar for Outlook (still in beta) and commercial products Look2Skype (www.look2skype.com) and Skype Contact (skypecontact.4team.biz). The adoption of Skype as a mainstream business tool is still in its



SNAPSHOT

TRENDnet Skype Appliances with Outlook Integration

TRENDnet ClearSky Bluetooth VoIP Phone Kit for Skype (pictured): \$110; TRENDnet ClearSky Bluetooth VoIP Conference Phone Kit for Skype: \$150; Skylook Outlook plug-in: basic is free, business license is \$50

Allow users to call and text message contacts from within Outlook; advanced Skylook features include recording calls to MP3 and Skype voicemail notifications in the Outlook inbox

www.Processor.com/ClearSky

infancy; however, products such as TRENDnet's Skype phones and the Skylook Outlook plug-in promise to broaden its appeal. ■

NETWORK & SYSTEMS MGMT.

JUNE 23, 2006

Apposite Technologies Linktropy 4500 WAN Emulator

Device Offers Simple Way To Test & Troubleshoot Your Network & Applications

THE LINKTROPY 4500 from Apposite Technologies is a new generation of WAN emulator, combining unsurpassed precision with unbeatable prices. The Linktropy 4500 simulates WAN bandwidth, delay, congestion, bit errors, and other important link characteristics at speeds up to 155Mbps.

The Linktropy 4500 is used to test, benchmark, and troubleshoot networks and



applications under a spectrum of real-world WAN conditions.

Uses for the Linktropy 4500 include:

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- Product QA testing

The Linktropy 4500 is designed for ease of use. The traffic monitor displays throughput graphs and statistics to help visualize performance. Integrated Ethernet bridging and IP routing functionality make the Linktropy 4500 simple to install in any network while the intuitive, Web-based, graphical interface allows the Linktropy 4500 to be set up and configured in minutes.

The Linktropy 4500 WAN Emulator simulates link conditions, including bandwidth, latency, packet loss, and bit errors and can emulate any type of WAN, including terrestrial, wireless, Internet, and satellite.

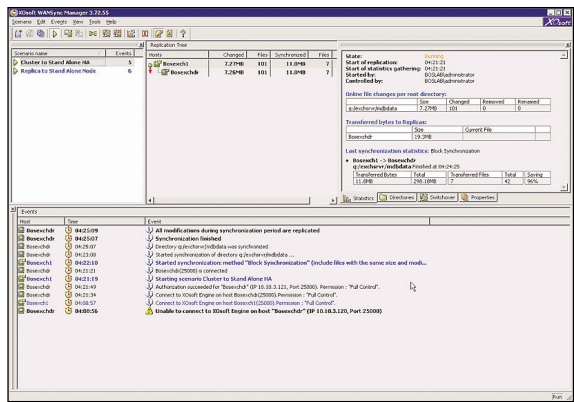
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BOOK

REVIEW

Resolve Conflicts Within Your Company

Book Shares Strategies For Mediation & Negotiation

by Elizabeth Millard

RUNNING AN EFFECTIVE IT SHOP takes more than project savvy, technology expertise, and goal-setting. Occasionally, it also involves soothing hurt feelings, dealing with user anxiety, and mediating conflict among employees, contractors, and even executives.

In his exploration of such tricky situations, Jeffrey Krivis, author of “Improvisational Negotiation: A Mediator’s Stories of Conflict About Love, Money, Anger—and the Strategies That Resolved Them,” details a number of real-life scenarios that required time and effort to smooth over difficulties.

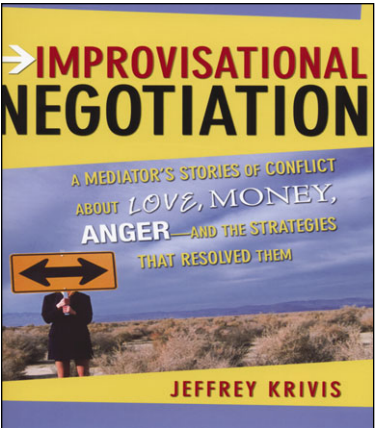
The Complexities Of Mediation

By presenting the situations in detail and giving both sides of each story, Krivis creates a compelling look at what causes conflict and a realistic view of what it takes to solve disputes. He expends hours getting the perspective of each side, showing that mediation is a complex process that requires just as much creativity as conversation.

One tale involves Dan, who’d just been fired from a high-tech firm despite having a

stellar performance record. The overwhelming anger Dan feels surprises his supervisor and threatens to lead to a high-profile lawsuit until Krivis discovers that Dan has a personal investment in the company, seeing his colleagues as family rather than just co-workers. Eventually, an agreement is hammered out that lets the ex-employee do consulting for the company, but more importantly, it demonstrates to his supervisor that some people might feel more attachment to the company than he realizes.

At the end of each story, Krivis gives advice about what the reader should learn from the scenario. In the case of Dan, he notes that the company should have looked for clues to deeper psychological issues and created an atmosphere where both sides felt



Improvisational Negotiation: A Mediator’s Stories of Conflict About Love, Money, Anger—and the Strategies That Resolved Them

Author: Jeffrey Krivis

Publisher: Jossey-Bass/Wiley

Price: \$35

Format: Hardcover, 323 pages

free to have compassion for each other.

Resolution Application

Although some of the tales aren’t relevant to business, the lessons can apply within a professional atmosphere. For instance, a conflict involving teenage boys who fired a paintball at a little girl illustrates the importance of empathy when emotions are running high and of validation for other points of view.

Other stories involving employment discrimination and disgruntled workers are especially instructive, and Krivis is adept at giving advice that’s easy to implement. In many cases, simply

giving both sides the opportunity to state their gripes goes a long way toward creating an open negotiating environment. Other strategies include limiting the number of participants in a discussion, taking time to negotiate rather than rushing toward a

Key Concepts

- Brainstorm to increase the list of settlement options
- Encourage trust by building rapport early, chatting about topics unrelated to the dispute
- Take a verbal inventory of progress, concentrating on the opportunities that have been created and the decisions that have been made
- Role-play so each side can see the other’s point of view
- Physically move to a different location if negotiation seems stuck
- Identify goals and encourage parties to meet them
- Show a willingness to listen and be open to ideas

“quick fix” solution, clarifying each point as it’s made, and reviewing a mediation’s progress by writing down key points that each involved party share.

Krivis emphasizes the value of listening to multiple perspectives and weaving them together to reduce conflict. As IT managers know, companies are made up of people, and emotions do play a part in how people react to different situations. For instance, new security policies, downsizing, or management changes can cause deep undercurrents of anxiety and frustration that can affect even the most carefully planned projects.

“When it comes to negotiation, we all have to use our improvisational skills to make deals happen,” writes Krivis. Recognizing conflict, understanding emotions, and bringing people to an understanding are key. ■

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Industry Statistics

- More than 57% of all network breaches are made from laptops. (FBI)
- 97% of stolen computers are never recovered. (FBI)
- 1 out of 10 laptops will be stolen or lost each year. (Gartner Group)
- 32 States have passed the Security Breach Notification Law, which only applies to unencrypted information.
- More than 32 million Americans have had sensitive personal data exposed during the

past seven months and nearly 90 million since the ChoicePoint incident last year.

- 20% of customers who received a breach notification terminated the relationship due to lack of trust. (Ponemon Study)
- \$14 million—average cost per company with a data breach. (Ponemon)

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The Sticky Side Of Tape Disposal

Which Option Is Right For Your SME?

by Douglas Schweitzer, Sc.D.

WITH THE NUMBER of regulations now surrounding the use, security, and storage of data, companies are to be extremely careful, and highly proactive, in how they dispose of data and data storage media.

Not all data eradication, data destruction, and tape disposal services are forthright about the procedures they use in data destruction. Some companies offer data destruction by destroying the tape media, which seems straightforward; however, destroying the media alone does not erase the data on tapes. Some services claim to overwrite the data so it is unreadable but then only rewrite part of the tape. Again, this is somewhat duplicitous, as a portion of your “overwritten” data remains readable. Still others use degaussing equipment that is not strong enough to adequately erase all data on

today’s high-density media. Data center managers should exercise caution and remain vigilant when they evaluate prospective data eradication services.

Out With The Old, In With The New

As businesses adapt to different technologies, they will need to dispose of their old tapes and backups. According to Trey Wilkins, director of marketing at eMag Solutions, “This is especially true with the dynamic changes as users migrate to newer technologies more frequently than ever before.” In today’s business atmosphere, more people are becoming environmentally conscious, urging companies to embrace recycling. And, adds Wilkins, older media disposal has become more costly.

Whether they’re being recycled or destroyed, tapes must be properly handled. Not only do organizations have to protect client privacy concerns, they also have to meet compliance regulations, which often cannot be disputed. “This is specifically why we developed an erasure process (wiping or

eradication) to totally remove old data while preserving continued usefulness of high-density tapes with servo tracks,” says Wilkins. “We call this process our Tier 3, Data Eradication.” Companies can oversee the work of the firms they hire to erase their tapes and actually verify each tape while it is being serviced onsite. In fact, eMag Solutions boasts that it’s the first company to offer a full data track with servo preservation, which Wilkins says is “a unique option for corporations to ensure the data is removed while still maintaining the ability to reuse or sell the tapes.”

Another dilemma arises when an organization wants to eliminate its old media in favor of higher capacity or faster media. After your company decides that tapes will no longer be used, you must be sure they are properly eradicated or “wiped” before they leave your premises. But what is the best option for your small to midsize enterprise?

Alternatives Abound

The options for tapes whose usefulness has been exhausted include data destruction, degaussing, overwriting the data, and data eradication while preserving the servo tracks. “In each of these cases the tape can be recycled as long as you don’t degauss a tape with servo tracks and destroy the servo tracks,” says Wilkins. “The other option is tape destruction, and the tape is incinerated. In either case the company should get a certificate of destruction.”

Savvy companies don’t just have their media destroyed; they can often turn a profit on old tapes. In some cases it doesn’t pay

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Tape Disposal Services

Company	Services Offered	Web Site
Garner Products	Tape degaussing (erasing)	www.garner-products.com
Media Recovery	Data eradication and tape disposal	www.mediarecovery.com
StorageMedia.com	Secure data eradication	www.storagemedia.com

Batten Down The IT Hatches

Accelerating Patch Deployment In The Face Of Expedited Exploits

by Tony Bradley

IT WASN’T LONG AGO that many companies considered OS and application patching to be a back-burner task. It might be nice to do if time and business requirements permitted, but it was not an urgent matter. Patching has grown to become a focal point of the overall security and integrity of the network, and many companies have dedicated employees, or even teams, assigned to evaluating and deploying patches as quickly as possible.

Susan Bradley, a Microsoft MVP for Small Business Server and an expert on Microsoft patching, says companies need to be concerned about how quickly patches are implemented “because the window of time between proof of concept [code] to exploit code to worm to attack is shrinking. In some cases, like most of the Internet Explorer patches, the exploit code is already out and already in use. This shrinking window

means that we no longer have the ‘year’ window we had back in the SQL Slammer era where there was [almost] a year between when patches came out and an exploit tore through the Web. Three years ago Blaster gave us about a month, [but in August] MS06-040 gave us about five or six days before we started seeing stuff.”

Time Is Money

Not only does getting the patch implemented faster mean your systems are protected quicker; it also saves money. Patching starts at knowing the patch exists. Without a patch management application, such as UpdateExpert from St. Bernard Software (www.stbernard.com) or the PatchPoint proxy appliance from Blue Lane Technologies (www.bluelane.com), that means having a technician or administrator monitor vulnerability and vendor Web sites for any newly available patches.

Once the patch is released, it must be reviewed and assessed to see whether it applies to your particular systems, and then it must be tested to make sure it won’t break or impair your mission-critical applications. After that, the patch must be packaged in some way for whatever deployment method will be used, and then it must be distributed to and installed on each of the applicable systems. All of this takes man-hour and hardware resources that cost money.

Getting the patch out quicker by reducing the amount of testing done, adding more personnel to expedite the process, having the patch deployment team put in extra hours, or using an automated patch management tool can all help cut the cost of patch deployment. However, if the patch is rushed out and ends up crashing critical business systems, it may cost more and result in lost revenue or a damaged business reputation.

Get It Right

Chris Andrew, vice president of security technologies for PatchLink, says, “Deploying without

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Patching By Proxy

Amid all of the urgency of patching and what the best approach is for evaluating and deploying patches as quickly as possible, a new strategy has emerged as well: Don’t patch at all.

Blue Lane Technologies has introduced the PatchPoint appliance, which acts as a proxy for the patches. Sitting between the network and the vulnerable servers, the PatchPoint appliance intercepts traffic and alters it in the same way that the patch would have affected the data, then forwards it to the original destination.

The end result is that the servers, while still technically vulnerable, are not affected by vulnerability exploits. There is no need to test patches or time wasted waiting for them to be deployed. The “patch” can take effect immediately. The patch proxy can also protect operating system platforms that are no longer supported by the vendor. For more details, see www.Processor.com/UnpatchedServers.

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Dark Data Center Design

The Setup & Not-So-Dim Reality For SMEs

by Robyn Weisman

THE LIKELIHOOD OF REMOVING the so-called “human element” entirely from data centers may still be the stuff of science fiction—and may not be altogether desirable. Nevertheless, limiting the number of people who access your data center is desirable and often essential to maintaining a network.

“IT failures and data center errors are caused [in large part] by human-related failures,” says Peter Sacco, president of PTS Data Center Solutions. The variables human involvement introduce into a data center can lead to more clutter, more risk, and ultimately technical complications, he says.

Because of these issues, the concept of the “dark data center” is gaining traction among IT professionals. In its idealized form, a dark data center is a network environment and infrastructure that can be managed remotely and that is compartmentalized, where functions are broken up in multiple rooms and even separate floors for massive large-enterprise setups.

Reducing Risk

Human error gets ushered into the data center through several channels. In-house IT staff, facility staff, other company employees, and outside consultants may wander into the bowels of the network, ignorant of procedures. An electrician, for example, might enter the data center to fix the connectors of a florescent tube and accidentally cut off the circuit breakers for the Exchange server.

In designing dark data centers for his company’s clients, Sacco stresses the importance of separating functions into separate rooms as much as possible. “We would never put the UPS or the air-conditioning in the computer room so that a mechanic doesn’t need to go into that room to fix a cooling problem,” he says.

Forrester Research analyst Richard Fichera recently authored a report that echoes this line of thought for data center cooling systems. “The cooling systems are second only to the systems themselves in their contribution to a data center’s electrical load and cost . . . intelligent layout and attention to simple high-level design issues can pay big dividends,” Fichera writes.

Securing the data center is critical as well, regardless of its size, says Yankee Group senior analyst Laura DiDio. “You need to be able to monitor and regulate access to servers through carded access [and] keeping lists of who has access to this area,” DiDio says. “Also, if there is an expensive piece of equipment or a specific server carrying critical information, try to put it in a little room someplace, if possible.”

Feasibility For SMEs

A true dark data center is out of reach for all but the largest enterprises. “Cost and complexity are the primary disadvantages for realizing this goal,” Sacco says. DiDio notes, “[SMEs] literally don’t have that much space or that many people, applications, or physical servers to do this, and for the most part [it] is not practical or necessary.”

Moreover, says Sacco, the proper deployment of a dark data center is being overshadowed by power distribution and

cooling strategies. The best practices of leading UPS companies such as APC presently place its power distribution setups in the main computer room.

Sacco says APC is the only UPS manufacturer whose best practices specifically put its units in the data center. However, there are several companies in the high-density cooling industry such as Rittal and Liebert whose best practices interfere with the setup of a dark data center because their structures and enclosures are supposed to be set up in the main data center and require someone besides the IT admin to enter the data center to set them up or repair them.

The “Dim” Alternatives For SMEs

But SMEs do not have to give up the dark data center dream entirely, says Sacco. A “dim data center” resembles the dark data center in its understanding of the primary concepts. “There’s at least that consciousness of processes of how work is accomplished and then restricting, tracking, and accepting accountability of human access the best you can,” Sacco explains.

Achieving this dim data center ideal translates into IT administrators maintaining flexibility in their server and network setups, seeking out software-based solutions for remote access, and keeping abreast of trends in related technologies, such as KVM and IP-remote standards, that suggest compartmentalizing certain processes akin to those advocated by dark data center devotees.

DiDio says up-to-date equipment and related wiring is important to prevent electrical fires and power outages. Also, she says lots of remote monitoring applications are available, many of which are cheap or free.

For example, Nagios, an open protocol SMTP trap manager, is a good choice for tinkerers (nagios.org). For less than \$1,000, there is Ipswitch’s WhatsUp Professional 2006 Premium Edition (www.ipswitch.com). For midsized companies, there are managed IT solutions service providers. Sacco says IPsoft (www.ip-soft.net) is a solid option. It’s not cheap, but it’s less expensive than offerings for large enterprises. ■

Another Reason To Use Virtualization Technologies

Virtualization, a hot topic of late, is a useful technology for helping IT administrators realize some of the benefits that come with having a dark or dim data center—and make dim data centers more of a reality for small to mid-sized enterprises. Server room temperature and humidity control, for example, can be optimized with virtualization technology.

When you deploy virtualization in the data center, getting a four- or five-to-one server consolidation, you are able to consolidate the amount of space you are employing and power convection, so you’re improving on conservation as well as with security, Yankee Group’s Laura DiDio says. With virtualization you have the potential to save on power and utilities costs.

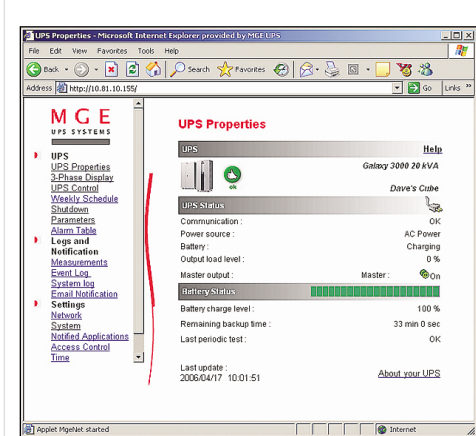
Peter Sacco, president of PTS Data Center Solutions, says that virtualization can aid against data center sprawl, which is particularly helpful to SMEs with small data centers that may only feasibly design a dim data center.

PHYSICAL INFRASTRUCTURE

JUNE 9, 2006

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MGE Enterprise Power Manager Includes Real-Time Logging Of Events



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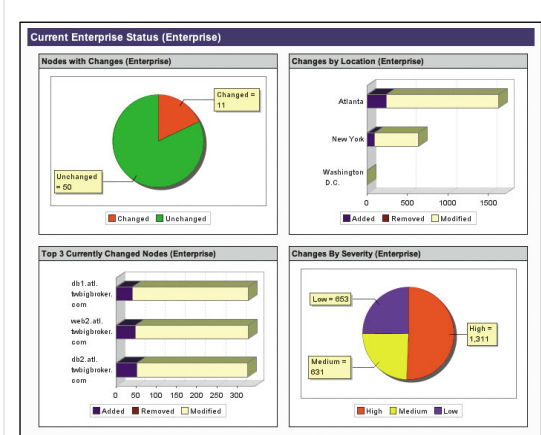
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AUGUST 11, 2006

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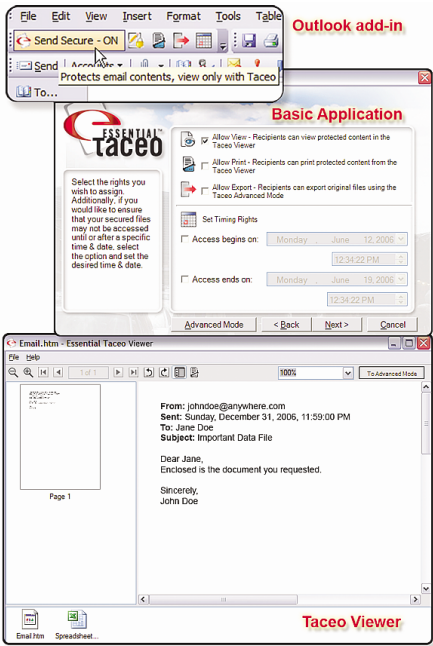
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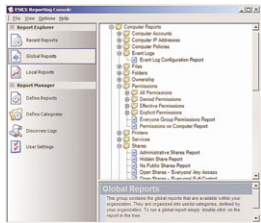


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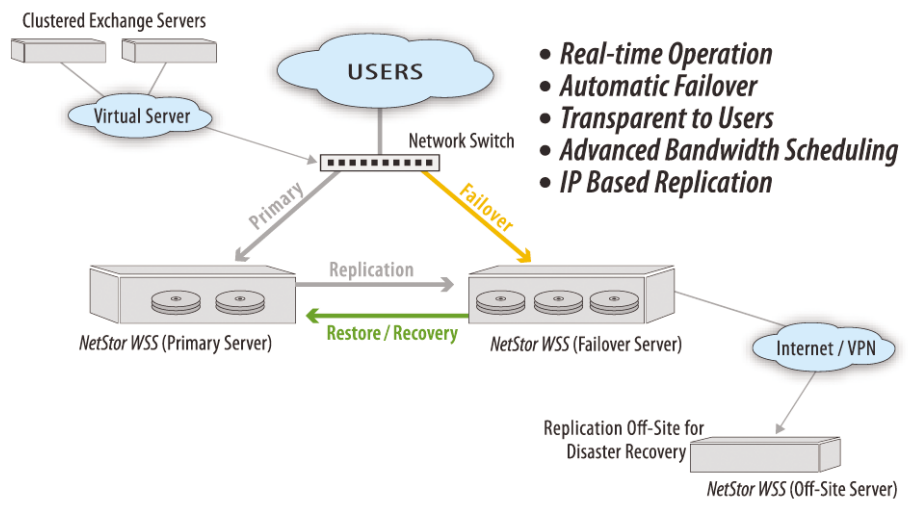
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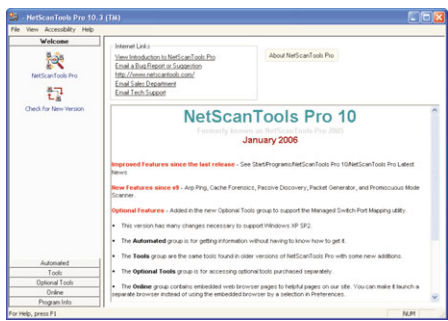
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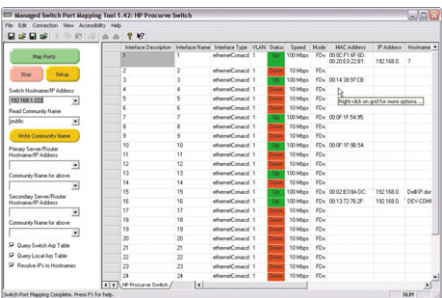
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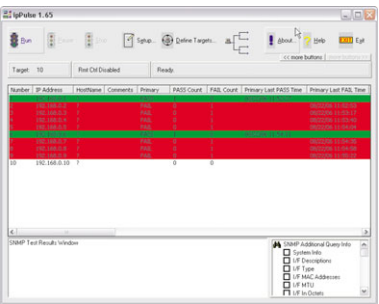
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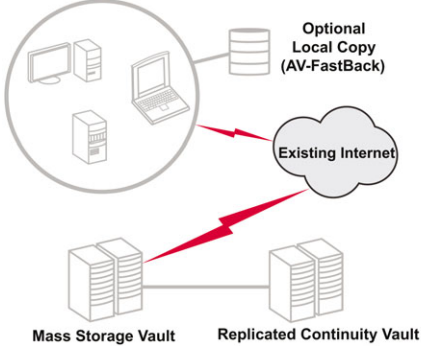
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